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> PTitle: JP9124327A2: FINE HOLLOW GLASS BALL AND ITS PRODUCTION

PDerwent Title: Producing micro glass balloons - used as lightweight filler for plastics,

floating material for ships, synthetic wood or artificial marble [Derwent Record]

JP Japan

> Α **PKind:**

§Inventor: YAMADA KENJI:

> **HIRANO HACHIRO**; SATO MASAKUNI;

ASAHI GLASS CO LTD PAssignee:

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Published / Filed: **1997-05-13** / 1996-08-21

PApplication

JP1996000220120

Number:

PIPC Code: C03B 19/08; C03C 11/00; C08K 3/40;

PECLA Code: B63B43/10; C03C11/00B;

1995-08-28 JP1995000219068 Priority Number:

> PROBLEM TO BE SOLVED: To readily produce fine hollow glass **PAbstract**:

beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops

for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 3µm average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-50µm, a real density of 0.1-

1.5g/cm3, a low specific gravity and is useful as a floatation material

for ships.

None

& Family:

® Forward

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Go to Result Set: Forward references (1) References: PDF **Patent** Pub.Date Inventor Assignee Title Tanaka: Asahi Glass Fine hollow glass sphere and

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図 US6531222 2003-03-11 Masaharu

Company, Limited method for preparing the same

8 Other Abstract Info:

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(71) Applicant: ASAHI GLASS CO LTD

(72) Inventor: YAMADA KENJI HIRANO HACHIRO SATO MASAKUNI

(74) Representative:

(54) FINE HOLLOW GLASS BALL AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To readily produce fine hollow glass beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 3ì m average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously

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produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-501 m, a real density of 0.1-1.5g/cm3, a low specific gravity and is useful as a floatation material for ships.

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